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☐ 1. Document ID: US 6074822 A

L3: Entry 1 of 19

File: USPT

Jun 13, 2000

US-PAT-NO: 6074822

DOCUMENT-IDENTIFIER: US 6074822 A

TITLE: Method for testing for risk of diabetes

DATE-ISSUED: June 13, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Henry; Douglas N.	East Lansing	MI	N/A	N/A

US-CL-CURRENT: 435/6; 435/91.5, 514/866

ABSTRACT:

A test method and test kit for determining a risk of diabetic complications based upon abnormal aldose reductase genetic material expression is described. Cells isolated from a patient which exhibit elevated levels of aldose reductase genetic material expression at pathophysiologic levels of glucose (about 20 mM) which can occur commonly in the cells of diabetic patients are evaluated based upon a level of expression of DNA or RNA in the cells with the glucose at the pathophysiologic level. The cells can be used to isolate DNA or RNA for a probe which detects the abnormal aldose reductase gene expression. The method can be used to determine when particular aldose reductase inhibitors can be effective for a particular patient.

10 Claims, 18 Drawing figures Exemplary Claim Number: 1
Number of Drawing Sheets: 10

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw Desc	Image
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☐ 2. Document ID: US 6045807 A

L3: Entry 2 of 19

File: USPT

Apr 4, 2000

US-PAT-NO: 6045807
DOCUMENT-IDENTIFIER: US 6045807 A

TITLE: Method for production of neuroblasts

DATE-ISSUED: April 4, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gage; Fred H.	La Jolla	CA	N/A	N/A
Ray; Jasodhara	San Diego	CA	N/A	N/A

US-CL-CURRENT: 424/93.21; 424/93.7, 435/325, 435/366, 435/395, 435/402, 435/404, 536/23.1

ABSTRACT:

A method for producing a neuroblast and a cellular composition comprising an enriched population of neuroblast cells is provided. Also disclosed are methods for identifying compositions which affect neuroblasts and for treating a subject with a neuronal disorder, and a culture system for the production and maintenance of neuroblasts.

9 Claims, 17 Drawing figures Exemplary Claim Number: 1
Number of Drawing Sheets: 5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 3. Document ID: US 6020197 A

L3: Entry 3 of 19

File: USPT

Feb 1, 2000

US-PAT-NO: 6020197
DOCUMENT-IDENTIFIER: US 6020197 A

TITLE: Method for production of neuroblasts

DATE-ISSUED: February 1, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gage; Fred H.	La Jolla	CA	N/A	N/A
Ray; Jasodhara	San Diego	CA	N/A	N/A

US-CL-CURRENT: 435/368; 435/325, 435/366, 435/395, 435/402, 435/404

ABSTRACT:

A method for producing a neuroblast and a cellular composition comprising an enriched population of neuroblast cells is provided. Also disclosed are methods for identifying compositions which affect neuroblasts and for treating a subject with a neuronal disorder, and a culture system for the production and maintenance of neuroblasts.

10 Claims, 17 Drawing figures Exemplary Claim Number: 1
Number of Drawing Sheets: 5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 4. Document ID: US 6013521 A

L3: Entry 4 of 19

File: USPT

Jan 11, 2000

US-PAT-NO: 6013521
DOCUMENT-IDENTIFIER: US 6013521 A

TITLE: Method for production of neuroblasts

DATE-ISSUED: January 11, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gage; Fred H.	La Jolla	CA	N/A	N/A
Ray; Jasodhara	San Diego	CA	N/A	N/A

US-CL-CURRENT: 435/368; 435/325, 435/363, 435/366, 435/384, 435/387, 435/395, 435/402,
435/405, 435/406, 536/23.1

ABSTRACT:

A method for producing a neuroblast and a cellular composition comprising an enriched population of neuroblast cells is provided. Also disclosed are methods for identifying compositions which affect neuroblasts and for treating a subject with a neuronal disorder, and a culture system for the production and maintenance of neuroblasts.

14 Claims, 34 Drawing figures Exemplary Claim Number: 1
Number of Drawing Sheets: 5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Draw Desc	Image
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☐ 5. Document ID: US 6008047 A

L3: Entry 5 of 19

File: USPT

Dec 28, 1999

US-PAT-NO: 6008047
DOCUMENT-IDENTIFIER: US 6008047 A

TITLE: Cell culturing method and medium

DATE-ISSUED: December 28, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Curcio; Francesco	Pagnacco	N/A	N/A	ITX
Coon; Hayden G.	East Sebago	ME	N/A	N/A
Ambesi-Impimobato; F. Saverio	Udine	N/A	N/A	ITX

US-CL-CURRENT: 435/370; 424/93.7, 435/1.1, 435/378, 435/383, 435/391, 435/392, 435/397

ABSTRACT:

The present invention provides a method for producing an expanded non-transformed cell culture of human liver cells comprising the steps of: (1) preparing partially purified, minced human liver tissue, (2) concentrating the resulting cells and tissue pieces, (3) resuspending the concentrated tissue cells and pieces in a growth medium, (4) culturing the resuspended cells in the growth medium for a time and under conditions to effect sustained cell division, and (5) passaging the cultured human liver cells periodically to expand the culture. The growth medium comprises a combination of a basal medium and ingredients to provide a medium in which the cultured human liver cells are selectively proliferated without being transformed, providing an expanded culture of proliferated, functionally differentiated human liver cells that is substantially free of fibroblast, macrophage and capillary endothelial cells. Also provided is the improvement of harvesting cells of the expanded culture at a selected PDL preferably >5, providing a high density cell suspension of such proliferated human liver cells, and incubating such high density cell suspension in a calm-down medium to induce a mitotically quiescent state and, using a culture procedure which encourages aggregation, making the cells adhere tightly to form a three-dimensional cell organization typical of the organ of origin, thereby forming organoids.

16 Claims, 18 Drawing figures Exemplary Claim Number: 1
Number of Drawing Sheets: 11

Number of Drawing Sheets:

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 6. Document ID: US 5935849 A

L3: Entry 6 of 19

File: USPT

Aug 10, 1999

US-PAT-NO: 5935849

DOCUMENT-IDENTIFIER: US 5935849 A

TITLE: Methods and compositions of growth control for cells encapsulated within bioartificial organs

DATE-ISSUED: August 10, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Schinstine; Malcolm	Bristol	RI	N/A	N/A
Shoichet; Molly S.	Canton	MA	N/A	N/A
Gentile; Frank T.	Warwick	RI	N/A	N/A
Hammang; Joseph P.	Barrington	RI	N/A	N/A
Holland; Laura M.	Providence	RI	N/A	N/A
Cain; Brian M.	Everett	MA	N/A	N/A
Doherty; Edward J.	Mansfield	MA	N/A	N/A
Winn; Shelley R.	Smithfield	RI	N/A	N/A
Aebischer; Patrick	Lutry	N/A	N/A	CHX

US-CL-CURRENT: 435/325; 435/375, 435/377, 435/400

ABSTRACT:

This invention relates to methods and compositions of controlling cell distribution within a bioartificial organ by exposing the cells to a treatment that inhibits cell proliferation, promotes cell differentiation, or affects cell attachment to a growth surface within the bioartificial organ. Such treatments include (1) genetically manipulating cells, (2) exposing the cells to a proliferation-inhibiting compound or a differentiation-inducing compound or removing the cells from exposure to a proliferation-stimulating compound or a differentiation-inhibiting compound; exposing the cells to irradiation, and (3) modifying a growth surface of the BAO with ECM molecules, molecules affecting cell proliferation or adhesion, or an inert scaffold, or a combination thereof. These treatments may be used in combination.

7 Claims, 8 Drawing figures Exemplary Claim Number: 1,5

Number of Drawing Sheets: 5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 7. Document ID: US 5888816 A

L3: Entry 7 of 19

File: USPT

Mar 30, 1999

US-PAT-NO: 5888816
DOCUMENT-IDENTIFIER: US 5888816 A

TITLE: Cell cultures of and cell culturing method for nontransformed pancreatic, thyroid, and parathyroid cells

DATE-ISSUED: March 30, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Coon; Hayden G.	Gaithersburg	MD	N/A	N/A
Ambesi-Impiombato; Francesco	Tricesimo	N/A	N/A	ITX Saverio
Curcio; Francesco				Pagnacco N/A N/A ITX

US-CL-CURRENT: 435/366; 435/325, 435/378, 435/382, 435/383, 435/391, 435/392, 435/404, 435/408

ABSTRACT:

The present invention provides a method for producing an expanded, enriched, non-transformed human cell culture of human pancreatic, thyroid or parathyroid endocrine cells and other types of cells which comprises (1) preparing partially purified, minced tissue that includes a desired type of cells; (2) concentrating the desired cells; (3) resuspending the concentrated cells in a growth medium which selects in favor of the desired cells and in which those cells are proliferated without being transformed and differentiated functions are retained through periodic passaging; (4) culturing the resuspended cells in the growth medium to effect sustained cell division; and (5) passaging the cultured cells periodically to expand the culture. The present invention further provides clonal strains of cells derived from the above-mentioned cell culture and procedures to form matrix-embedded aggregated and non-aggregated cells for providing pseudotissues and products such as matrix-embedded pancreatic islets (pseudoislets). Growth medium and conditioned medium is provided for the culturing of the cells and clonal strains, the growth medium comprising a suitable basal medium supplemented with effective concentrations of hypothalamus and pituitary extracts, serum and other ingredients, which growth medium selects in favor of desired human cells and against passenger cells including fibroblast, macrophage, and capillary endothelial cells such that the desired cells are selectively proliferated without being transformed and an expanded cell culture is provided of functionally differentiated, expanded, non-transformed human cells that is substantially free of such passenger cells.

34 Claims, 18 Drawing figures Exemplary Claim Number: 1
Number of Drawing Sheets: 11

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 8. Document ID: US 5858747 A

L3: Entry 8 of 19

File: USPT

Jan 12, 1999

US-PAT-NO: 5858747
DOCUMENT-IDENTIFIER: US 5858747 A

TITLE: Control of cell growth in a bioartificial organ with extracellular matrix coated microcarriers

DATE-ISSUED: January 12, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Schinstine; Malcolm	Ben Salem	PA	N/A	N/A
Shoichet; Molly S.	Toronto	N/A	N/A	CAX
Gentile; Frank T.	Warwick	RI	N/A	N/A
Hammang; Joseph P.	Barrington	RI	N/A	N/A
Holland; Laura M.	Horsham	PA	N/A	N/A
Cain; Brian M.	Everett	MA	N/A	N/A
Doherty; Edward J.	Mansfield	MA	N/A	N/A
Winn; Shelley R.	Smithfield	RI	N/A	N/A
Aebischer; Patrick	Lutry	N/A	N/A	CHX

US-CL-CURRENT: 435/182, 424/422, 424/93.21, 424/93.7, 435/176, 435/177, 435/178, 435/289.1, 435/377, 435/382, 435/395, 435/403

ABSTRACT:

Methods and compositions are provided for controlling cell distribution within an implantable bioartificial organ by exposing the cells to a treatment that inhibits cell proliferation, promotes cell differentiation, or affects cell attachment to a growth surface within the bioartificial organ. Such treatments include (1) genetically manipulating cells, (2) exposing the cells to a proliferation-inhibiting compound or a differentiation-inducing compound or removing the cells from exposure to a proliferation-stimulating compound or a differentiation-inhibiting compound; exposing the cells to irradiation, and (3) modifying a growth surface of the bioartificial organ with extracellular matrix molecules, molecules affecting cell proliferation or adhesion, or an inert scaffold, or a combination thereof. These treatments may be used in combination. The bioartificial organ typically has a semipermeable membrane encapsulating a cell-containing core, and is preferably immunoisulatory. Cells can be grown on microcarriers and then loaded into the bioartificial organ. The microcarriers may be coated with an extracellular matrix component such as collagen to cause decreased cell proliferation or increased cell differentiation. Microcarriers containing cells can be suspended in a proliferation inhibiting hydrogel matrix prior to encapsulation.

11 Claims, 8 Drawing figures Exemplary Claim Number: 1
Number of Drawing Sheets: 5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 9. Document ID: US 5853717 A

L3: Entry 9 of 19

File: USPT

Dec 29, 1998

US-PAT-NO: 5853717
DOCUMENT-IDENTIFIER: US 5853717 A

TITLE: Methods and compositions of growth control for cells encapsulated within bioartificial organs

DATE-ISSUED: December 29, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Schinstine; Malcolm	Ben Salem	PA	N/A	N/A
Shoichet; Molly S.	Toronto	N/A	N/A	CAX
Gentile; Frank T.	Warwick	RI	N/A	N/A
Hammang; Joseph P.	Barrington	RI	N/A	N/A
Holland; Laura M.	Horsham	PA	N/A	N/A
Cain; Brian M.	Everett	MA	N/A	N/A
Doherty; Edward J.	Mansfield	MA	N/A	N/A
Winn; Shelley R.	Smithfield	RI	N/A	N/A
Aebischer; Patrick	Lutry	N/A	N/A	CAX

US-CL-CURRENT: 424/93.21; 435/326, 435/372.2, 435/372.3, 435/382

ABSTRACT:

This invention relates to methods and compositions of controlling cell distribution within a bioartificial organ by exposing the cells to a treatment that inhibits cell proliferation, promotes cell differentiation, or affects cell attachment to a growth surface within the bioartificial organ. Such treatments include (1) genetically manipulating cells, (2) exposing the cells to a proliferation-inhibiting compound or a differentiation-inducing compound or removing the cells from exposure to a proliferation-stimulating compound or a differentiation-inhibiting compound; exposing the cells to irradiation, and (3) modifying a growth surface of the BAO with ECM molecules, molecules affecting cell proliferation or adhesion, or an inert scaffold, or a combination thereof. These treatments may be used in combination.

14 Claims, 8 Drawing figures Exemplary Claim Number: 1
Number of Drawing Sheets: 5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 10. Document ID: US 5849584 A

L3: Entry 10 of 19

File: USPT

Dec 15, 1998

US-PAT-NO: 5849584
DOCUMENT-IDENTIFIER: US 5849584 A

TITLE: Cell cultures of and cells culturing method for nontransformed parotid cells

DATE-ISSUED: December 15, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Coon; Hayden G.	Gaithersburg	MD	N/A	N/A
Ambesi-Impiombato; Francesco	Tricesimo	N/A	N/A	ITX Saverio
Curcio; Francesco				Pagnacco N/A N/A ITX

US-CL-CURRENT: 435/366, 435/325, 435/378, 435/382, 435/383, 435/391

ABSTRACT:

The present invention provides a method for producing an expanded non-transformed cell culture comprising the steps of: (1) preparing partially purified, minced tissue; (2) concentrating the resulting cells and tissue pieces; (3) resuspending the concentrated tissue cells and pieces in a culture medium capable of supporting sustained cell division that is contained in a culture vessel; (4) incubating the cells; and (5) passaging the cells periodically. The present invention further provides clonal strains of cells derived from the above-mentioned cell culture, medium and conditioned medium designed for the culturing of parotid cells and other glandular cells such as pancreatic, thyroid, and parathyroid, and cells, and the use of cultured pancreatic cells to form pancreatic pseudotissues composed of matrix-embedded aggregated (pseudoislets) or individual cells, to treat blood sugar disorders in mammals, and to test for cytotoxicity and autoimmune activities with reference to pancreatic endocrine cells. The nontransformed cells are cultured in a growth medium comprising a suitable basal medium supplemented with effective concentrations of hypothalamus and pituitary extracts, and serum.

17 Claims, 18 Drawing figures Exemplary Claim Number: 1
Number of Drawing Sheets: 11

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWMC	Draw Desc	Image
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☐ 11. Document ID: US 5843431 A

L3: Entry 11 of 19

File: USPT

Dec 1, 1998

US-PAT-NO: 5843431
DOCUMENT-IDENTIFIER: US 5843431 A

TITLE: Controlling proliferation of cells before and after encapsulation in a bioartificial organ by gene transformation

DATE-ISSUED: December 1, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Schinstine; Malcolm	Ben Salem	PA	N/A	N/A
Shoichet; Molly S.	Toronto	N/A	N/A	CAX
Gentile; Frank T.	Warwick	RI	N/A	N/A
Hammang; Joseph P.	Barrington	RI	N/A	N/A
Holland; Laura M.	Horsham	PA	N/A	N/A
Cain; Brian M.	Everett	MA	N/A	N/A
Doherty; Edward J.	Mansfield	MA	N/A	N/A
Winn; Shelley R.	Smithfield	RI	N/A	N/A
Aebischer; Patrick	Lutry	N/A	N/A	CHX

US-CL-CURRENT: 424/93.21, 424/422, 424/93.7, 435/174, 435/178, 435/377, 435/382, 435/395, 435/467

ABSTRACT:

Methods and compositions are provided for controlling cell distribution within an implantable bioartificial organ by exposing the cells to a treatment that inhibits cell proliferation, promotes cell differentiation, or affects cell attachment to a growth surface within the bioartificial organ. Such treatments include (1) genetically manipulating cells, (2) exposing the cells to a proliferation-inhibiting compound or a differentiation-inducing compound or removing the cells from exposure to a proliferation-stimulating compound or a differentiation-inhibiting compound; exposing the cells to irradiation, and (3) modifying a growth surface of the bioartificial organ with extracellular matrix molecules, molecules affecting cell proliferation or adhesion, or an inert scaffold, or a combination thereof. These treatments may be used in combination. Cells can be transformed with a proliferation-promoting gene such as the oncogene, SV40, linked to a regulatable promoter such as the Mx1 promoter, the promoter is activated in vitro to express the gene to result in cell proliferation, and the promoter is inactivated before or after insertion of the cells in the bioartificial organ to inhibit expression of the gene to reduce or stop cell proliferation in vivo. The promoter can be reactivated in vivo to again express the gene to result in further cell proliferation. The gene may be a proliferation-suppressing gene such as p53 gene or RB gene, or a differentiation-inducing gene such as high mobility group chromosomal protein 14. Inhibiting gene expression in vitro causes cell proliferation, and inducing gene expression reduces or stops cell proliferation in vivo.

10 Claims, 8 Drawing figures Exemplary Claim Number: 1
Number of Drawing Sheets: 5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 12. Document ID: US 5840576 A

L3: Entry 12 of 19

File: USPT

Nov 24, 1998

US-PAT-NO: 5840576
DOCUMENT-IDENTIFIER: US 5840576 A

TITLE: Methods and compositions of growth control for cells encapsulated within bioartificial organs

DATE-ISSUED: November 24, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Schinstine; Malcolm	Ben Salem	PA	N/A	N/A
Shoichet; Molly S.	Toronto	N/A	N/A	CAX
Gentile; Frank T.	Warwick	RI	N/A	N/A
Hammang; Joseph P.	Barrington	RI	N/A	N/A
Holland; Laura M.	Horsham	PA	N/A	N/A
Cain; Brian M.	Everett	MA	N/A	N/A
Doherty; Edward J.	Mansfield	MA	N/A	N/A
Winn; Shelley R.	Smithfield	RI	N/A	N/A
Aebischer; Patrick	Lutry	N/A	N/A	CHX

US-CL-CURRENT: 435/325, 435/375, 435/377, 435/400

ABSTRACT:

This invention relates to methods and compositions of controlling cell distribution within a bioartificial organ by exposing the cells to a treatment that inhibits cell proliferation, promotes cell differentiation, or affects cell attachment to a growth surface within the bioartificial organ. Such treatments include (1) genetically manipulating cells, (2) exposing the cells to a proliferation-inhibiting compound or a differentiation-inducing compound or removing the cells from exposure to a proliferation-stimulating compound or a differentiation-inhibiting compound; exposing the cells to irradiation, and (3) modifying a growth surface of the BAO with ECM molecules, molecules affecting cell proliferation or adhesion, or an inert scaffold, or a combination thereof. These treatments may be used in combination.

4 Claims, 8 Drawing figures Exemplary Claim Number: 1
Number of Drawing Sheets: 5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KM/C	Draw Desc	Image
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☐ 13. Document ID: US 5833979 A

L3: Entry 13 of 19

File: USPT

Nov 10, 1998

US-PAT-NO: 5833979
DOCUMENT-IDENTIFIER: US 5833979 A

TITLE: Methods and compositions of growth control for cells encapsulated within bioartificial organs

DATE-ISSUED: November 10, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Schinistine; Malcolm	Ben Salem	PA	N/A	N/A
Shoichet; Molly S.	Toronto	N/A	N/A	CAX
Gentile; Frank T.	Warwick	RI	N/A	N/A
Hamman; Joseph P.	Barrington	RI	N/A	N/A
Holland; Laura M.	Horsham	PA	N/A	N/A
Cain; Brian M.	Everett	MA	N/A	N/A
Doherty; Edward J.	Mansfield	MA	N/A	N/A
Winn; Shelley R.	Smithfield	RI	N/A	N/A
Aebischer; Patrick	Lutry	N/A	N/A	CHX

US-CL-CURRENT: 424/93.21; 424/553, 424/556, 435/174, 435/352

ABSTRACT:

This invention relates to methods and compositions of controlling cell distribution within a bioartificial organ by exposing the cells to a treatment that inhibits cell proliferation, promotes cell differentiation, or affects cell attachment to a growth surface within the bioartificial organ. Such treatments include (1) genetically manipulating cells, (2) exposing the cells to a proliferation-inhibiting compound or a differentiation-inducing compound or removing the cells from exposure to a proliferation-stimulating compound or a differentiation-inhibiting compound; exposing the cells to irradiation, and (3) modifying a growth surface of the BAO with ECM molecules, molecules affecting cell proliferation or adhesion, or an inert scaffold, or a combination thereof. These treatments may be used in combination.

2 Claims, 8 Drawing figures Exemplary Claim Number: 1
Number of Drawing Sheets: 5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	RUOC	Draw Desc	Image
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☐ 14. Document ID: US 5795790 A

L3: Entry 14 of 19

File: USPT

Aug 18, 1998

US-PAT-NO: 5795790
DOCUMENT-IDENTIFIER: US 5795790 A

TITLE: Method for controlling proliferation and differentiation of cells encapsulated within bioartificial organs

DATE-ISSUED: August 18, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Schinstine; Malcolm	Ben Salem	PA	N/A	N/A
Shoichet; Molly S.	Toronto	N/A	N/A	CAX
Gentile; Frank T.	Warwick	RI	N/A	N/A
Hammang; Joseph P.	Barrington	RI	N/A	N/A
Holland; Laura M.	Horsham	PA	N/A	N/A
Cain; Brian M.	Everett	MA	N/A	N/A
Doherty; Edward J.	Mansfield	MA	N/A	N/A
Winn; Shelley R.	Smithfield	RI	N/A	N/A
Aebischer; Patrick	Lutry	N/A	N/A	CHX

US-CL-CURRENT: 435/382; 424/93.7, 435/177, 435/178, 435/180, 435/182

ABSTRACT:

Methods and compositions are provided for controlling cell distribution within a bioartificial organ by exposing the cells to a treatment that inhibits cell proliferation, promotes cell differentiation, or affects cell attachment to a growth surface within the bioartificial organ. Such treatments include (1) genetically manipulating cells, (2) exposing the cells to a proliferation-inhibiting compound or a differentiation-inducing compound or removing the cells from exposure to a proliferation-stimulating compound or a differentiation-inhibiting compound; exposing the cells to irradiation, and (3) modifying a growth surface of the bioartificial organ with extracellular matrix molecules, molecules affecting cell proliferation or adhesion, or an inert scaffold, or a combination thereof. These treatments may be used in combination. In a preferred treatment, cells are exposed to and then removed from exposure to a proliferation-stimulating and differentiation inhibiting compound prior to encapsulation of the cells in a semipermeable biocompatible jacket to form a bioartificial organ. Upon in vivo implantation of the bioartificial organ in a host, cellular proliferation is inhibited and cellular differentiation is promoted.

10 Claims, 8 Drawing figures Exemplary Claim Number: 6
Number of Drawing Sheets: 5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw Desc	Image
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☐ 15. Document ID: US 5780299 A

L3: Entry 15 of 19

File: USPT

Jul 14, 1998

US-PAT-NO: 5780299
DOCUMENT-IDENTIFIER: US 5780299 A

TITLE: Method of altering blood sugar levels using non-transformed human pancreatic cells that have been expanded in culture

DATE-ISSUED: July 14, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Coon; Hayden G.	Gaithersburg	MD	N/A	N/A
Ambesi-Impiombato; Francesco	Tricesimo	N/A	N/A	ITX Saverio
Curcio; Francesco				Pagnacco N/A N/A ITX

US-CL-CURRENT: 435/366; 435/325, 435/382, 435/383, 435/391

ABSTRACT:

The present invention provides a method for producing an expanded non-transformed cell culture comprising the steps of: (1) preparing partially purified, minced tissue; (2) concentrating the resulting cells and tissue pieces; (3) resuspending the concentrated tissue cells and pieces in a culture medium capable of supporting sustained cell division that is contained in a culture vessel; (4) incubating the cells; and (5) passaging the cells periodically. The present invention further provides clonal strains of cells derived from the above-mentioned cell culture, medium and conditioned medium designed for the culturing of such cells, including pancreatic, thyroid, parathyroid, and parotid cells, and the use of cultured pancreatic cells to form pancreatic pseudotissues composed of matrix-embedded aggregated (pseudoislets) or individual cells, to treat blood sugar disorders in mammals, and to test for cytotoxicity and autoimmune activities with reference to pancreatic endocrine cells.

14 Claims, 18 Drawing figures Exemplary Claim Number: 1
Number of Drawing Sheets: 11

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWOC	Draw Desc	Image
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☐ 16. Document ID: US 5776747 A

L3: Entry 16 of 19

File: USPT

Jul 7, 1998

US-PAT-NO: 5776747
DOCUMENT-IDENTIFIER: US 5776747 A

TITLE: Method for controlling the distribution of cells within a bioartificial organ using polyethylene oxide-poly (dimethylsiloxane) copolymer

DATE-ISSUED: July 7, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Schinstine; Malcolm	Bensalem	PA	N/A	N/A
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US-CL-CURRENT: 435/177; 435/180, 435/181, 435/182

ABSTRACT:

This invention relates to methods and compositions of controlling cell distribution within a bioartificial organ by exposing the cells to a treatment that inhibits cell proliferation, promotes cell differentiation, or affects cell attachment to a growth surface within the bioartificial organ. Such treatments include (1) genetically manipulating cells, (2) exposing the cells to a proliferation-inhibiting compound or a differentiation-inducing compound or removing the cells from exposure to a proliferation-stimulating compound or a differentiation-inhibiting compound; exposing the cells to irradiation, and (3) modifying a growth surface of the BAO with ECM molecules, molecules affecting cell proliferation or adhesion, or an inert scaffold, or a combination thereof. These treatments may be used in combination. A particular embodiment is directed to derivatizing or adsorbing polyethylene oxide-poly(dimethylsiloxane) copolymer (PEO-PDMS) onto a surface within the bioartificial organ to inhibit cellular attachment.

2 Claims, 8 Drawing figures Exemplary Claim Number: 1
Number of Drawing Sheets: 5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 17. Document ID: US 5766948 A

L3: Entry 17 of 19

File: USPT

Jun 16, 1998

US-PAT-NO: 5766948
DOCUMENT-IDENTIFIER: US 5766948 A

TITLE: Method for production of neuroblasts

DATE-ISSUED: June 16, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gage; Fred H.	La Jolla	CA	N/A	N/A
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US-CL-CURRENT: 435/368; 435/325, 435/366, 435/395, 435/402, 435/404

ABSTRACT:

A method for producing a neuroblast and a cellular composition comprising an enriched population of neuroblast cells is provided. Also disclosed are methods for identifying compositions which affect neuroblasts and for treating a subject with a neuronal disorder, and a culture system for the production and maintenance of neuroblasts.

7 Claims, 17 Drawing figures Exemplary Claim Number: 1
Number of Drawing Sheets: 4

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMIC	Draw Desc	Image
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☐ 18. Document ID: US 5703056 A

L3: Entry 18 of 19

File: USPT

Dec 30, 1997

US-PAT-NO: 5703056
DOCUMENT-IDENTIFIER: US 5703056 A

TITLE: Non-invasive imaging of gene transfer

DATE-ISSUED: December 30, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
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US-CL-CURRENT: 514/44; 424/1.17, 424/1.21, 424/1.73, 424/9.35, 424/9.43, 435/194,
435/320.1, 436/504, 536/23.1, 536/23.2, 536/23.5, 536/23.74, 600/1, 600/2, 600/3, 600/4,
600/9

ABSTRACT:

The subject invention provides a method of detecting gene transfer to and expression in a target tissue of a host subject comprising: (a) administering to the host subject a transfer vector containing a marker gene not naturally present in the host and nontoxic to the host, wherein the transfer vector transfects cells of the target tissue, under conditions such that the marker gene is expressed in transfected cells of the target tissue, thereby generating a marker gene product; (b) administering to the host subject a labelled marker substrate which is not metabolized by non-transfected cells, under conditions such that the marker substrate is metabolized by the marker gene product of step (a) to produce a labelled marker metabolite which is substantially retained in the transfected cells throughout a time-period sufficient for imaging the labelled marker metabolite; and (c) imaging the labelled marker metabolite, thereby detecting gene transfer to and expression in the target tissue. The subject invention provides a non-invasive, clinically applicable method for imaging gene transfer and expression which can be implemented using existing imaging techniques to monitor and evaluate in vivo gene therapy in human subjects.

13 Claims, 31 Drawing figures Exemplary Claim Number: 1
Number of Drawing Sheets: 15

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 19. Document ID: US 5646035 A

L3: Entry 19 of 19

File: USPT

Jul 8, 1997

US-PAT-NO: 5646035

DOCUMENT-IDENTIFIER: US 5646035 A

TITLE: Method for preparing an expanded culture and clonal strains of pancreatic, thyroid or parathyroid cells

DATE-ISSUED: July 8, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Coon; Hayden G.	Gaithersburg	MD	N/A	N/A
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US-CL-CURRENT: 435/378; 435/383, 435/397

ABSTRACT:

The present invention provides a method for producing an expanded non-transformed cell culture comprising the steps of: (1) preparing partially purified, minced tissue; (2) concentrating the resulting cells and tissue pieces; (3) resuspending the concentrated tissue cells and pieces in a culture medium capable of supporting sustained cell division that is contained in a culture vessel; (4) incubating the cells; and (5) passaging the cells periodically. The present invention further provides clonal strains of cells derived from the above-mentioned cell culture, medium and conditioned medium designed for the culturing of such cells, including pancreatic, thyroid, parathyroid, and parotid cells, and the use of cultured pancreatic cells to form pancreatic pseudotissues composed of matrix-embedded aggregated (pseudoislets) or individual cells, to treat blood sugar disorders in mammals, and to test for cytotoxicity and autoimmune activities with reference to pancreatic endocrine cells.

16 Claims, 18 Drawing figures Exemplary Claim Number: 1
Number of Drawing Sheets: 11

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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